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Florida Board of Conservation Field Station, Stuart, Florida. St. Petersburg Marine Laboratory Contribution No. 83.

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TWO DRAGONFLIES NEW TO FLORIDA

DENNIS R. PAULSON

Pending publication of a survey of the Odonata of southern Florida, I take this opportunity to put on record two species previously unrecorded in the state. The first of these, *Brachymesia herbida* (Gundlach), has been taken at a brackish ditch on Big Pine Key, Monroe County, where adults were collected on 14 October 1960 and 9 April 1961. Needham (1945) casually mentioned collecting this species at Clewiston, Hendry County, the only record of its occurrence in Florida. M. J. Westfall, Jr., however, has informed me (*in litt.*, 27 March 1961) that Needham's record is based upon immature specimens of *Brachymesia gravida* (Calvert).

The second species, Neoerythromma cultellatum (Hagen), has been taken at Nine Mile Pond in Everglades National Park, Dade County, where adults were collected 9 July 1962 and 13 June 1963, and an emerging individual was found on 15 March 1964. The species is apparently established as a resident.

Specimens of both species are presently in my possession; representatives are to be deposited in the University of Florida collections.

Both species are widespread in the Greater Antilles. *B. herbida* also ranges from southern Texas to Bolivia and Brazil. *N. cultellatum* has been recorded from Guatemala to Panama, and may be more widespread than that on the mainland, as I have examined two males in the University of Florida collections from La Gloria Cardel, Veracruz, Mexico, collected in 1938 by J. Camelo G. The present record is the first for *N. cultellatum* in the United States. The finding of these two species in southern Florida further strengthens the idea of this area as a transitional one between temperate and tropical faunas.

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Quart. Jour. Florida Acad. Sci. 27(4) 1964 (1965): 298

NEW ATLANTIC COAST RANGES FOR FISHES

WILLIAM D. ANDERSON, JR., AND ELMER J. GUTHERZ

Specimens of Corniger spinosus, Holocentrus ascensionis, Myripristis jacobus, and Ostichthys trachypomus (Holocentridae); Anisotremus virginicus (Pomadasyidae); Chaetodon sedentarius and Holacanthus tricolor (Chaetodontidae); and Bodianus pulchellus and Clepticus parrai (Labridae) have been collected by the U. S. Bureau of Commercial Fisheries exploratory fishing vessels Combat, Silver Bay, and Delaware at localities along the Atlantic coast of the United States north of their previously reported ranges. These specimens are in the collections of the U. S. Bureau of Commercial Fisheries Biological Laboratory, Brunswick, Georgia, unless otherwise indicated. We are grateful to Loren P. Woods of the Chicago Natural History Museum and Bruce B. Collette of the Bureau of Commercial Fisheries Ichthyological Laboratory, for their comments on the manuscript, and to Robert H. Gibbs, Jr., Division of Fishes, U. S. National Museum, for the loan of specimens.

1. Corniger spinosus Agassiz

Four specimens (103-122 mm S.L.) from Silver Bay stations 1393, 2989, 5507, and 5579. Range previously reported as "costas del Brasil" and Cuba north of Havana by Howell Rivero (1941, pp. 3-7). The collection of the specimen off Cape Romain, S. C. (Silver Bay station 1393), represents a range extension of about 650 nautical miles northward from Cuba, along the Atlantic coast of the United States.

2. Holocentrus ascensionis (Osbeck). Squirrelfish

Twelve specimens (180-276 mm S.L.) from Silver Bay stations 1534, 2999, 3000, 3330, 3649, 4672, 5417, 5418, 5419, and 5420; and four specimens (22-40 mm S.L., deposited in the U. S. National Museum) collected by Robert H. Gibbs, Jr. with dip net and night light, while aboard the Delaware 38°56′N. Lat., 66°27′W. Long. (USNM 194241), 39°07′N. Lat., 65°58′W. Long. (USNM 194239), 37°02′N. Lat., 71°20′W. Long. (USNM 194240), and 39°44.5′N. Lat., 70°56′W. Long. (USNM 194244). Range previously reported as "Both side of the Atlantic; in the western Atlantic from Ber-

TABLE 1

Data for Combat, Silver Bay, and Delaware collections listed in text

		Posi	Position	Distance and Direction from Nearest Landfall	Depth	Date	
Station		N. Lat.	W. Long.	(Approximate Nautical Miles)	(Fathoms)		
Combat 353		30°24′	80°20′	54 E Jacksonville Beach, Fla.	24	3 June	1957
Silver Bay	1207	33°24′	.60°.	49 ESE Cape Fear, N. C.	25	2 Sept.	1959
do	1233	34°00′	76°21′	37 S Cape Lookout, N. C.	30/33	5 Sept.	1959
op	1268	34°32′	75°53′	35 E. Cape Lookout, N. C.	31/30	11 Sept.	1959
op	1297	34°09′	76°35′	26 S Cape Lookout, N. C.	20	23 Sept.	1959
op	1393	32°32′	78°40′	45 SE Cape Romain, S. C.	40/50	26 Oct.	1959
op	1506	33°40.5′	76°59.5′	50 E Cape Fear, N. C.	21/22	9 Dec.	1959
op	1534	30°39′	80°17′	60 E. Amelia Is., Fla.	22/23	15 Jan.	1960
op	1734	32°51′	78°39′	35 SE South Is., S. C.	17	7 March	
qo	1738	33°04′	77°59′	47 S Cape Fear, N. C.	20/21	7 March	
op	2543	33°26′	77°13′	45 ESE Cape Fear, N. C.	22	6 Dec.	1960
op	2989	30°43′	80°07′	69 E Amelia Is., Fla.	26/28	18 April	1961
op	2999	30°25′	80°25′	51 E Talbot Is., Fla.	19	20 April	1961
op	3000	30°29′	80°27′	49 E Talbot Is., Fla.	21	20 April	1961
op	3009	29°45′	80°28′	40 E Anastasia Is., Fla.	18	21 April	1961
op	3010	29°45′	80°28′	40 E Anastasia Is., Fla.	18	21 April	1961
op	3330	33°15.5′	77°15.5′	34 S Cape Fear, N. C.	17	13 Aug.	1961
op	3649	33°17′	77°46′	34 S Cape Fear, N. C.	18	11 Dec.	1961
op	4117	34°34′	76°13′	16 E Cape Lookout, N. C.	Surface	2 June	1962
op	4183	33°21′	77°39′	34 SE Cape Fear, N. C.	14/16	28 July	1962
op	4652	33°15.5′	77°51.5′	35 S Cape Fear, N. C.	17	25 Jan.	1963

TABLE 1 (cont.)

Data for Combat, Silver Bay, and Delaware collections listed in text

W. Long. (Appro W. Long. W. Long. (Appro W. Long. 78° 33.5′ 43 ESE 78° 33.5′ 43 ESE 78° 33.5′ 43 ESE 78° 33.5′ 53.5′ 53 SE N 79° 32.5′ 53 SE N 79° 23.5′ 51 SE N 80° 10′ 66 E C C 80° 10′ 66 E C C 80° 15′ 65′ 62 E C C 80° 15′ 63 SE N 80° 15′ 63 SE N 80° 15′ 63° 58′ 53° 58′ 50° 58	Distance and Direction			
4665 32°45′ 78°33.5′ 43 ESE Cape Romain, S. 4672 32°45′ 78°33.5′ 43 ESE Cape Romain, S. 4673 32°45′ 78°33.5′ 43 ESE Cape Romain, S. 4673 32°45′ 78°33.5′ 43 ESE Cape Romain, S. 4921 30°21.5′ 80°50.5′ 29 E Jacksonville Beach, 4938 30°45′ 80°15′ 62 E Cumberland Is, Ga. 5391 31°56′ 79°32.5′ 53 SE Kiawah Is, S. C. 5393 31°56′ 79°33.5′ 51 SE Kiawah Is, S. C. 5393 31°56′ 79°33.5′ 51 SE Kiawah Is, S. C. 5417 30°46′ 80°16′ 62 E. Cumberland Is, Ga. 5418 30°57′ 80°10′ 66 E Cumberland Is, Ga. 5420 30°44′ 80°15′ 65 E Cumberland Is, Ga. 5437 32°58′ 78°36′ 33 SE North Island, S. C. 5507 29°18.5′ 80°15′ 62 E Cumberland Is, Ga. 5579 29°02′ 80°15′ 13 NE Sebastian Inlet, Fla. 5579 29°02′ 80°07.5′ 40 E New Smyrna Beach, 5682 30°03′ 80°33′ 39 ENE Anastasia Is, Fla. 38°56′ 66°27′ 225 SE Nantucket Is, Mas 38°05′ 65°58′ 270 SE Assateague Is, Va. Carrier 10°00′ 10°00° 10°00′ 10°00′ 10°00° 10°00′ 10°00′ 10°00′ 10°00′ 10°00′ 10°00° 10°00° 10°00′ 10°00° 10°00° 10°00° 10°00° 10°00° 10°00° 10°00° 10°00	7. Long.	Depth (Fathoms)	Date	
4672 32°45' 78°33.5' 43 ESE Cape Romain, S. 4673 32°45' 78°33.5' 43 ESE Cape Romain, S. 4921 30°21.5' 80°50.5' 29 E Jacksonville Beach, 4938 30°45' 79°32.5' 53 SE Kiawah Is., Ga. 5390 31°50' 79°32.5' 53 SE Kiawah Is., S. C. 5391 31°56.5' 79°32.5' 51 SE Kiawah Is., S. C. 5393 31°56.5' 79°23.5' 51 SE Kiawah Is., S. C. 5417 30°46' 80°16' 62 E. Cumberland Is., Ga. 5418 30°57' 80°10' 66 E Cumberland Is., Ga. 5419 30°50' 80°10' 66 E Cumberland Is., Ga. 5430 30°44' 80°15' 62 E Cumberland Is., Ga. 5507 29°18.5' 80°15' 62 E Cumberland Is., Ga. 5507 29°18.5' 80°15' 65 E Cumberland Is., Ga. 5507 29°18.5' 80°15' 65 E Cumberland Is., Ga. 5507 29°02' 80°15' 65 E Cumberland Is., Ga. 5507 29°02' 80°15' 52 E North Island, S. C. 5508 30°03' 80°33' 39 ENE Anastasia Is., Fla. 38°56' 66°27' 225 SE Nantucket Is., Mas 38°05' 65°58' 270 SE Nantucket Is., Mas	43 ESE	23/20	27 Ian.	1963
4673 32°45′ 78°33.5′ 43 ESE Cape Romain, S. 4921 30°21.5′ 80°50.5′ 29 E Jacksonville Beach, 4938 30°45′ 80°15′ 62 E Cumberland Is., Ga. 5390 31°50′ 79°32.5′ 53 SE Kiawah Is., S. C. 5391 31°56.5′ 79°34.5′ 52 SE Kiawah Is., S. C. 5393 31°56.5′ 79°23.5′ 51 SE Kiawah Is., S. C. 5417 30°46′ 80°16′ 62 E. Cumberland Is., Ga. 5418 30°53′ 80°10′ 66 E Cumberland Is., Ga. 5419 30°50′ 80°10′ 66 E Cumberland Is., Ga. 5419 30°50′ 80°10′ 66 E Cumberland Is., Ga. 5437 32°58′ 78°36′ 33 SE North Island, S. C. 5507 29°18.5′ 80°15′ 62 E Cumberland Is., Ga. 5507 29°18.5′ 80°15′ 66°27′ 33°58 North Island, S. C. 5508 30°03′ 80°33′ 39 ENE Anastasia Is., Fla. 38°56′ 66°27′ 225 SE Nantucket Is., Mas 38°05′ 65°58′ 270 SE Assateague Is., Va. 30°03′	43 ESE Cape Romain, S.		29 Jan.	1963
4921 30°21.5' 80°50.5' 29 E Jacksonville Beach, 4938 30°45' 80°15' 62 E Cumberland Is, Ga. 5390 31°50' 79°32.5' 53 SE Kiawah Is, S. C. 5391 31°56.5' 79°34.5' 52 SE Kiawah Is, S. C. 5393 31°56.5' 79°23.5' 51 SE Kiawah Is, S. C. 5417 30°46' 80°16' 62 E. Cumberland Is, Ga. 5418 30°57' 80°10' 66 E Cumberland Is, Ga. 5419 30°50' 80°10' 66 E Cumberland Is, Ga. 5420 30°44' 80°15' 66 E Cumberland Is, Ga. 5437 32°58' 78°36' 33 SE North Island, S. C. 5507 29°18.5' 80°15' 43 E Ormond Beach, Fla. 5516 27°58.5' 80°15' 13 NE Sebastian Inlet, Fla. 5579 29°02' 80°07.5' 40 E New Smyrna Beach, 5682 30°03' 80°33' 39 ENE Anastasia Is, Fla. 38°56' 66°27' 225 SE Nantucket Is, Mas 38°05' 65°58' 270 SE Nantucket Is, Mas 38°05' 65°58' 270 SE Nantucket Is, Mas 38°05' 71°20' 200 SE Assateague Is, Va. 71°20' 20°05 SE Assateague Is, Va. 20°0	43 ESE Cape Romain, S.	20/24	29 Jan.	1963
4938 30°45′ 80°15′ 62 E Cumberland Is., 5390 31°50′ 79°32.5′ 53 SE Kiawah Is., S. C 5391 31°49.5′ 79°34.5′ 52 SE Kiawah Is., S. C 5393 31°56.5′ 79°34.5′ 52 SE Kiawah Is., S. C 5417 30°46′ 80°16′ 62 E. Cumberland Is., 5418 30°53′ 80°10′ 66 E Cumberland Is., 5419 30°50′ 80°10′ 66 E Cumberland Is., 5437 32°58′ 78°36′ 33 SE North Island, S. 5507 29°18.5′ 80°15′ 62 E Cumberland Is., 5437 32°58′ 78°36′ 33 SE North Island, S. 5516 27°58.5′ 80°15′ 62 E Cumberland Is., 62 E Silvand Index, 62 E Silvand Index, 62 E Silvand Index, 62 E Silvand Index, 62 E Silvand Is., 62 E	29 E Jacksonville Beach,			1963
5390 31°50′ 79°32.5′ 53 SE Kiawah Is., S. C 5391 31°49.5′ 79°34.5′ 52 SE Kiawah Is., S. C 5393 31°56.5′ 79°23.5′ 51 SE Kiawah Is., S. C 5417 30°46′ 80°16′ 62 E. Cumberland Is., S. C 5418 30°53′ 80°10′ 66 E. Cumberland Is., C 5420 30°44′ 80°15′ 62 E. Cumberland Is., C 5437 32°58′ 78°36′ 33 SE North Island, S. C 5507 29°18.5′ 80°15′ 62 E. Cumberland Is., C 5516 27°58.5′ 78°36′ 33 SE North Island, S. C 5516 27°58.5′ 80°15′ 62 E. Cumberland Is., C 5517 29°18.5′ 80°15′ 62 E. Cumberland Is., C 5518 32°58′ 78°36′ 33 SE North Island, S. C 5519 29°02′ 80°15′ 43 E. Ormond Beach, I 5519 29°02′ 80°15′ 40 E. New Smyrna Beach, I 5582 30°03′ 80°33′ 39 ENE Anastasia Is., See See See See See See See See See Se	62	21.5	14 May	1963
5391 31°49.5' 79°34.5' 52 SE Kiawah Is., S. C 5393 31°56.5' 79°23.5' 51 SE Kiawah Is., S. C 5417 30°46' 80°16' 62 E. Cumberland Is., 5418 30°57' 80°10' 66 E Cumberland Is., 5420 30°44' 80°15' 62 E Cumberland Is., 5437 32°58' 78°36' 33 SE North Island, S. 5507 29°18.5' 80°15' 62 E Cumberland Is., 5516 27°58.5' 80°15' 62 E Cumberland Is., 5516 27°58.5' 80°15' 62 E Cumberland Is., 5517 29°18.5' 80°15' 62 E Cumberland Is., 62 E Cumberland Is., 62 E Cumberland Is., 63 Se Sebastian Inlet, 5516 27°58.5' 80°15' 43 E Ormond Beach, 5516 27°58.5' 80°15' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is., 5682 38°07' 66°27' 225 SE Nantucket Is., 58°07' 66°27' 225 SE Nantucket Is., 58°07' 65°58' 270 SE Nantucket Is., 58°07' 71°20' SE Assateague Is.,	53	35	6 Dec.	1963
5393 31°56.5′ 79°23.5′ 51 SE Kiawah Is., S. C 5417 30°46′ 80°16′ 62 E. Cumberland Is., 5418 30°53′ 80°07′ 67 E Cumberland Is., 5419 30°50′ 80°10′ 66 E Cumberland Is., 5420 30°44′ 80°15′ 62 E Cumberland Is., 5437 32°58′ 78°36′ 33 SE North Island, S. 5507 29°18.5′ 80°13′ 43 E Ormond Beach, 5516 27°58.5′ 80°15′ 13 NE Sebastian Inlet, 5579 29°02′ 80°07′ 40 E New Smyrna Bea 5682 30°03′ 80°33′ 39 ENE Anastasia Is., 38°56′ 66°27′ 225 SE Nantucket Is., 38°07′ 65°58′ 240 SE Nantucket Is., 58°07′ 71°20′ SE Assateague Is., 56°027′ 71°20′ SE Assateague Is.,	52	35	6 Dec.	1963
5417 30°46' 80°16' 62 E. Cumberland Is., 5418 30°53' 80°07' 67 E Cumberland Is., 5419 30°50' 80°10' 66 E Cumberland Is., 5420 30°44' 80°15' 62 E Cumberland Is., 5437 32°58' 78°36' 33 SE North Island, S., 5507 29°18.5' 80°13' 43 E Ormond Beach, I 5516 27°58.5' 80°15' 13 NE Sebastian Inlet, 5579 29°02' 80°07' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is., 88°56' 66°27' 225 SE Nantucket Is., 38°07' 65°58' 240 SE Nantucket Is., 38°05' 65°58' 270 SE Nantucket Is., 38°07' 71°20' 200 SE Assateague Is.,	51 SE Kiawah Is.,	40/44	6 Dec.	1963
5418 30°53' 80°07' 67 E Cumberland Is, 30°50' 80°10' 66 E Cumberland Is, 6420 30°44' 80°15' 62 E Cumberland Is, 6237 32°58' 78°36' 33 SE North Island, S. 5507 29°18.5' 80°13' 43 E Ormond Beach, 15516 27°58.5' 80°15' 13 NE Sebastian Inlet, 5579 29°02' 80°07.5' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is, 38°56' 66°27' 225 SE Nantucket Is, 38°57' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 38°05' 71°20' 200 SE Assateague Is, 65°58' 270 SE Assat	62 E. Cumberland Is.,	22	15 Dec.	1963
5419 30°50′ 80°10′ 66 E Cumberland Is., 5420 30°44′ 80°15′ 62 E Cumberland Is., 5437 32°58′ 78°36′ 33 SE North Island, S. 5507 29°18.5′ 80°13′ 43 E Ormond Beach, I 5516 27°58.5′ 80°15′ 13 NE Sebastian Inlet, 5579 29°02′ 80°07.5′ 40 E New Smyrna Bea 5682 30°03′ 80°33′ 39 ENE Anastasia Is., 38°56′ 66°27′ 225 SE Nantucket Is., 38°05′ 65°58′ 240 SE Nantucket Is., 38°05′ 71°20′ 71°20′ SE Assateague Is.	29	21/22	16 Dec.	1963
5420 30°44' 80°15' 62 E Cumberland Is., 6507 29°18.5' 80°13' 43 E Ormond Beach, 15516 27°58.5' 80°15' 13 NE Sebastian Inlet, 5579 29°02' 80°07.5' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is., 88°56' 66°27' 225 SE Nantucket Is., 38°56' 66°27' 225 SE Nantucket Is., 38°05' 65°58' 270 SE Nantucket Is., 38°05' 71°20' 50°0 SE Assateague Is.	99	22	16 Dec.	1963
5437 32°58′ 78°36′ 33 SE North Island, S. 5507 29°18.5′ 80°13′ 43 E Ormond Beach, I 5516 27°58.5′ 80°15′ 13 NE Sebastian Inlet, 5579 29°02′ 80°07.5′ 40 E New Smyrna Bea 5682 30°03′ 80°33′ 39 ENE Anastasia Is, 38°56′ 66°27′ 225 SE Nantucket Is, 38°05′ 65°58′ 240 SE Nantucket Is, 38°05′ 65°58′ 270 SE Nantucket Is, 38°05′ 71°20′ 71°20′ SE Assateague Is, 37°02′ 71°20′ 50° SE Assateague Is, 37°02′ 71°20′ 50° SE Assateague Is, 50° SE Assateag	_	21	16 Dec.	1963
5507 29°18.5' 80°13' 43 E Ormond Beach, 1 5516 27°58.5' 80°15' 13 NE Sebastian Inlet, 5579 29°02' 80°07.5' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is, 38°56' 66°27' 225 SE Nantucket Is, 39°07' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 38°05' 71°20' 200 SE Assateague Is, 20°02' 71°20' 200 SE Assateague Is, 20°02' 20°05' 2		16	16 Jan.	1964
5516 27°58.5' 80°15' 13 NE Sebastian Inlet, 5579 29°02' 80°07.5' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is, 38°56' 66°27' 225 SE Nantucket Is, 39°07' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 38°05' 71°20' 200 SE Assateague Is, 20°02' 71°20' 200 SE Assateague Is, 37°02' 71°20' 200 SE Assateague Is, 37°02' 71°20' 200 SE Assateague Is, 20°05' 71°20' 20°05' 71°20'		40	28 Feb.	1964
5579 29°02' 80°07.5' 40 E New Smyrna Bea 5682 30°03' 80°33' 39 ENE Anastasia Is, 38°56' 66°27' 225 SE Nantucket Is, 39°07' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 38°05' 71°20' 200 SE Assateague Is,			29 Feb.	1964
5682 30°03' 80°33' 39 ENE Anastasia Is, 38°56' 66°27' 225 SE Nantucket Is, 39°07' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 38°05' 71°20' 200 SE Assateague Is,			11 March	1964
88°56' 66°27' 225 SE Nantucket Is, 39°07' 65°58' 240 SE Nantucket Is, 38°05' 65°58' 270 SE Nantucket Is, 37°02' 71°20' 200 SE Assateague Is,			30 April	
39°07' 65°58' 240 38°05' 65°58' 270 37°02' 71°20' 200	225 SE Nantucket Is.,	Surface	8 June	
65°58' 270 71°20' 200	240		21 Sept.	1957
71°20′ 200	270	Surface	22 Sept.	1957
	200	Surface	18 July	1958
100 SE	70°56' 100 SE Montauk Pt., N. Y.	Surface	27 Aug.	1959

muda and Florida to Rio de Janeiro and the northern and western Gulf of Mexico" by Briggs (1958, p. 271). McKenney (1959, p. 208) cited several obscure references in which *Holocentrus* had been reported from as far north as Newport, Rhode Island, and Woods Hole, Massachusetts; these records might have been of pelagic juveniles and might refer to *H. ascensionis*. Gibbs and Collette (1959, pp. 145-146) found four specimens of *H. ascensionis* in the stomach contents of a *Coryphaena hippurus* "from the Gulf Stream." The stomach contents mentioned by Gibbs and Collette were collected from the *Delaware* at 38°58'N. Lat., 66°26'W. Long. on 9 June 1957 (Bruce B. Collette, *in litt.*, 19 August 1964). The collection of the specimen (USNM 194244) from SE of Montauk Pt., Long Island, N. Y., represents a range extension of about 800 nautical miles northward from Florida along the Atlantic coast of the United States.

3. Myripristis jacobus Cuvier. Blackbar soldierfish

Three specimens (101-142 mm S.L.) from *Combat* station 353 and *Silver Bay* station 3009. Range previously reported as "Both sides of the Atlantic; in the western Atlantic from the northeastern Gulf of Mexico to Tortugas, Florida, and south to Rio de Janeiro" by Briggs (1958, p. 270). The collection of the specimen off Jacksonville Beach, Fla. (*Combat* station 353), represents a range extension of about 500 miles by sea from Tortugas.

4. Ostichthys trachypomus (Günther). Bigeye soldierfish

One specimen (29 mm S.L.) from Silver Bay station 4117 and three specimens (22-25 mm S.L., deposited in the U. S. National Museum) collected by Robert H. Gibbs, Jr. with dipnet and night light, while aboard the Delaware 38°05'N. Lat., 65°58'W. Long. (USNM 194245) and 39°44.5'N. Lat., 70°56'W. Long (USNM 194246). Range previously reported as West Indies and Cuba by Jordan, Evermann, and Clark (1930, p. 234). Bailey et al. (1960, p. 24) first listed this species as occurring in waters of the United States presumably based upon a previously unpublished record off North Carolina furnished by Loren P. Woods. The collection of the specimens (USNM 194246) from SE of Montauk Pt., Long Island, N. Y., represents a range extension of about 900 nautical miles northward from the northernmost part of the West Indies (Bahamas), along the Atlantic coast of the United States.

5. Anisotremus virginicus (Linnaeus). Porkfish

Three specimens (82-260 mm S.L.) from Silver Bay stations 5516 and 5682. Range previously reported as "Bermuda and southern Florida to Santa Catarina, Brazil, and the eastern and southern Gulf of Mexico" by Briggs (1958, p. 279). The collection of the specimens off Anastasia Is., Fla. (Silver Bay station 5682), represents a range extension of about 200 nautical miles northward from southern Florida along the Atlantic coast of the United States.

6. Chaetodon sedentarius Poey. Reef butterflyfish

Thirty-seven specimens (73-120 mm S.L.) from Silver Bay stations 1207, 1233, 1268, 1297, 1506, 1534, 1734, 1738, 2543, 3010, 4652, 4665, 4673, 4921, 4938, 5390, 5391, 5393, 5417, 5420, and 5437. Range previously reported as Bermuda and West Indies by Beebe and Tee-Van (1933, p. 176); as "Eastern and southwestern Gulf of Mexico to Hispaniola" by Briggs (1958, p. 282); from the northern Gulf of Mexico by Collins and Smith (1959, p. 252); and from off the south Atlantic coast of the United States, but with no specific locality given, by Hubbs (1963, p. 140). The collection of the specimen off Cape Lookout, N. C. (Silver Bay station 1268), represents the northernmost known occurrence of this species along the Atlantic coast of the United States.

7. Holacanthus tricolor (Bloch). Rock beauty

Four specimens (115-173 mm S.L.) from *Silver Bay* stations 5418, 5419, and 5420. Range previously reported as "Bermuda and the Florida Keys to Rio de Janeiro" by Briggs (1958, p. 283). The collections of these specimens off Cumberland Is., Ga., represent a range extension of about 300 nautical miles northward along the Atlantic coast of the United States.

8. Bodianus pulchellus_(Poey). Spotfin hogfish

Five specimens (176-231 mm S.L.) from Silver Bay stations 4665, 4673, 5417, and 5418. The specimen from Silver Bay 4665 is deposited in the Chicago Natural History Museum (CNHM 66683). Range previously reported as "southeastern Florida and the Bahamas to northern South America" by Feddern (1963, p.

227). The collections of the specimens off Cape Romain, S. C. (Silver Bay stations 4665 and 4673), represent a range extension of about 450 nautical miles northward of that given by Feddern. The largest specimen examined by Feddern was "156.2" mm (UMML 9508). All specimens collected by the Silver Bay were larger but show the total gillraker count given by Feddern to distinguish Bodianus pulchellus (15 to 16) from the closely related Bodianus rufus (17 to 19). The preserved specimens show distinctive markings similar to those described by Feddern for B. pulchellus (a striking black area on the dorsal part of the pectoral distally and a black spot at the bases of the first two to four dorsal spines).

9. Clepticus parrai (Bloch and Schneider). Creole wrasse

One specimen (37 mm S.L.) from Silver Bay station 4183. Range previously reported as Bermuda and the West Indies by Beebe and Tee-Van (1933, p. 194). Henry A. Feddern (in litt., 16 March 1964) stated that there are "quite a few specimens of Clepticus parrai" in the collections of the University of Miami Marine Laboratory; all from the Florida Keys except one found dead on the beach at Miami Beach, Dade County, Florida, on 10 September 1960 (UMML 7140). The collection of this specimen off Cape Fear, N. C., represents a range extension of about 550 nautical miles northward along the Atlantic coast of the United States.

Discussion

Captures of large Holocentrus ascensionis and Chaetodon sedentarius from many localities off the south Atlantic coast of the United States in all seasons show they are resident species as far north as northern South Carolina (H. ascensionis) and central North Carolina (C. sedentarius), whereas the small specimens of H. ascensionis dipnetted farther north probably drifted into their areas of capture.

Collections of *Bodianus pulchellus* in January and December 1963 (nearly a year apart) and of *Holacanthus tricolor* in December 1963 during a time of the year when we would not expect warmer water strays, and each at more than one locality, indicate that these species normally range this far north.

Ostichthys trachypomus and Clepticus parrai may not normally occur as far north as these records suggest. The specimens of each